



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Stephen J. Doxsey  
Serial No. : 10/663,433  
Filed : September 15, 2003  
Title : CENTROSOME PROTEINS AND USES THEREOF

Art Unit : 1645  
Examiner : Unknown

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

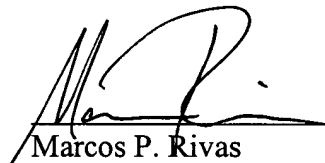
Applicant submits the references listed on the attached form PTO-1449.

This statement is being filed before the receipt of a first Office action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney  
Docket No. 07917-162001.

Respectfully submitted,

Date: July 13, 2004

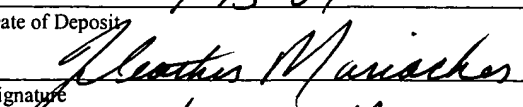
  
\_\_\_\_\_  
Marcos P. Rivas  
Reg. No. 54,401

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

20893400.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

7-13-04  
Date of Deposit  
  
Signature  
Heather Mariacher  
Typed or Printed Name of Person Signing Certificate

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07917-162001	Application No. 10/663,433
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(e))		Applicant <b>Stephen J. Doxsey</b>	
		Filing Date <b>September 15, 2003</b>	Group Art Unit <b>1645</b>

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	A1	Adames et al., "The surveillance mechanism of the spindle position checkpoint in yeast," J. Cell. Biol. 153, 159-68 (2001)
	A2	Andreassen et al., "Tetraploid State Induces p53-dependent Arrest of Nontransformed Mammalian Cells in G1," Mol. Biol. Cell 12, 1315-28 (2001)
	A3	Balasubramani et al., "Isolation and characterization of new fission yeast cytokinesis mutants," Genetics 149, 1265-75 (1998)
	A4	Bardin and Amon, "Men and sin: what's the difference?," Nat. Rev. Mol. Cell. Biol. 2, 815-26 (2001)
	A5	Bardin et al., "A mechanism for coupling exit from mitosis to partitioning of the nucleus," Cell 102, 21-31 (2000)
	A6	Bloecher et al., "Anaphase spindle position is monitored by the BUB2 checkpoint," Nat. Cell. Biol. 2, 556-8 (2000)
	A7	Bobinnec et al., "Centriole disassembly in vivo and its effect on centrosome structure and function in vertebrate cells," J. Cell. Biol. 143, 1575-1589 (1998).
	A8	Chang and Gould, "Sid4p is required to localize components of the septation initiation pathway to the spindle pole body in fission yeast," Proc. Natl. Acad. Sci. USA 97, 5249-54 (2000).
	A9	Cuif et al., "Characterization of GAPCenA, a GTPase activating protein for Rab6, part of which associates with the centrosome," EMBO. J. 18, 1772-82 (1999)
	A10	Dictenberg et al., "Pericentrin and gamma tubulin form a protein complex and are organized into a novel lattice at the centrosome," J. Cell. Biol. 141, 163-174 (1998)
	A11	Diviani et al., "Pericentrin anchors protein kinase A at the centrosome through a newly identified RII-binding domain," Curr. Biol. 10, 417-20 (2000)
	A12	Doxsey, S. J. "Re-evaluating centrosome function," Nature Reviews in Molecular Biology 2 688-699 (2000)
	A13	Doxsey et al., "Pericentrin, a highly conserved protein of centrosomes involved in microtubule organization," Cell 76, 639-650 (1994)
	A14	Fankhauser et al., "The S. pombe cdc15 gene is a key element in the reorganization of F- actin at mitosis," Cell 82, 435-44 (1995)
	A15	Flory et al., "Identification of a human centrosomal calmodulin-binding protein that shares homology with pericentrin," Proc. Natl. Acad. Sci. USA 97, 5919-23 (2000)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07917-162001	Application No. 10/663,433
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant <b>Stephen J. Doxsey</b>	
		Filing Date <b>September 15, 2003</b>	Group Art Unit <b>1645</b>

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	A16	Gergely et al., "The TACC domain identifies a family of centrosomal proteins that can interact with microtubules," Proc. Natl. Acad. Sci. USA 97, 14352-7 (2000)
	A17	Gillingham and Munro, "The PACT domain, a conserved centrosomal targeting motif in the coiled-coil proteins AKAP450 and pericentrin," EMBO Rep. 1, 524-9 (2000)
	A18	Gruneberg et al., "Nud1p links astral microtubule organization and the control of exit from mitosis," Embo. J. 19, 6475-88 (2000)
	A19	Guasch et al., "FGFR1 is fused to the centrosome-associated protein CEP110 in the 8p12 stem cell myeloproliferative disorder with t(8;9)(p12;q33), Blood 95, 1788-96 (2000)
	A20	Guertin et al., "Cytokinesis in eukaryotes," Microbiol. Mol. Biol. Rev. 66, 155-78 (2002)
	A21	Hinchcliffe et al., "Requirement of a centrosomal activity for cell cycle progression through G1 into S phase," Science 291, 1547-50 (2001)
	A22	Hirota et al., "Zyxin, a regulator of actin filament assembly, targets the mitotic apparatus by interacting with h-warts/LATS1 tumor suppressor," J. Cell. Biol. 149, 1073-86 (2000)
	A23	Khodjakov, and Rieder, "Centrosomes enhance the fidelity of cytokinesis in vertebrates and are required for cell cycle progression," J. Cell. Biol. 153, 237-42 (2001)
	A24	Krapp et al., "S. pombe cdc11p, together with sid4p, provides an anchor for septation initiation network proteins on the spindle pole body," Curr. Biol. 11, 1559-68 (2001).
	A25	Le Goff et al., "Controlling septation in fission yeast: finding the middle, and timing it right," Curr. Genet. 35, 571-84 (1999)
	A26	Le Goff et al., "Analysis of the cps1 gene provides evidence for a septation checkpoint in Schizosaccharomyces pombe," Mol. Gen. Genet. 262, 163-72 (1999b)
	A27	Lee et al., "Msps/XMAP215 interacts with the centrosomal protein D-TACC to regulate microtubule behaviour," Nat. Cell. Biol. 3, 643-9 (1999b)
	A28	Liu et al., "A checkpoint that monitors cytokinesis in Schizosaccharomyces pombe," J. Cell. Sci. 113, 1223-30 (2000)
	A29	Luca and Winey, "MOB1, an essential yeast gene required for completion of mitosis and maintenance of ploidy," Mol. Biol. Cell 9, 29-46 (1998)
	A30	Mailand et al., "Deregulated human Cdc14A phosphatase disrupts centrosome separation and chromosome segregation," Nat. Cell. Biol. 4, 318-22 (2002)
	A31	Matuliene and Kuriyama, "Kinesin-like protein CHO1 is required for the formation of midbody matrix and the completion of cytokinesis in mammalian cells," Mol. Biol. Cell 13(6):1832-45 (2002)
	A32	McCollum and Gould, "Timing is everything: regulation of mitotic exit and cytokinesis by the MEN and SIN," Trends Cell. Biol. 11, 89-95 (2001)
	A33	Meraldi et al., "Aurora-A overexpression reveals tetraploidization as a major route to centrosome amplification in p53-/- cells," Embo. J. 21, 483-92 (2002)
	A34	Mogensen et al., "Centrosomal deployment of gamma-tubulin and pericentrin: Evidence for a microtubule-nucleating domain and a minus-end docking domain in certain mouse epithelial cells," Cell. Motil. Cytoskel. 36, 276-290 (1997)
	A35	Mogensen et al., "Microtubule minus-end anchorage at centrosomal and non-centrosomal sites: the role of ninein," J. Cell. Sci. 113, 3013-23 (2000)
	A36	Mollinari et al., "PRC1 is a microtubule binding and bundling protein essential to maintain the mitotic spindle midzone," J. Cell. Biol. 157:1175-1186 (2002)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07917-162001	Application No. 10/663,433
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Stephen J. Doxsey	
		Filing Date September 15, 2003	Group Art Unit 1645

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	A37	Morales et al., "Absence of cancer-associated changes in human fibroblasts immortalized with telomerase," Nat. Genet. 21, 115-8 (1999)
	A38	Pereira and Schiebel, "The role of the yeast spindle pole body and the mammalian centrosome in regulating late mitotic events," Curr. Opin. Cell. Biol. 13, 762-9 (2001)
	A39	Piel et al., "The respective contributions of the mother and daughter centrioles to centrosome activity and behavior in vertebrate cells," J. Cell. Biol. 149(2):317-30 (2000)
	A40	Purohit et al., "Direct interaction of pericentrin with cytoplasmic dynein light intermediate chain contributes to mitotic spindle organization," J. Cell. Biol. 147, 481-491 (1999)
	A41	Scheffner et al., "The E6 oncoprotein encoded by human papillomavirus types 16 and 18 promotes the degradation of p53," Cell 63, 1129-36 (1990)
	A42	Tomlin et al., "The spindle pole body protein cdc11p links sid4p to the fission yeast septation initiation network," Mol. Biol. Cell 13, 1203-14 (2002)
	A43	Trautmann et al., "Fission yeast Clp1p phosphatase regulates G2/M transition and coordination of cytokinesis with cell cycle progression," Curr. Biol. 11, 931-40 (2001)
	A44	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	